

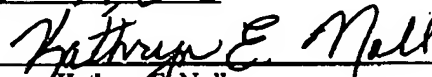
ATTORNEY'S DOCKET NO.: 1811-US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.:	10/675,647	Art Unit	2833
Applicants:	Thomas S. Cohen et al.	Examiner:	Ross N. Gushi
Filed:	September 3, 2003	Conf. No.	5823
Title:	HIGH SPEED, HIGH DENSITY ELECTRICAL CONNECTOR		

CERTIFICATE OF TRANSMISSION

I hereby certify that this correspondence is being facsimile transmitted to the U. S. Patent and Trademark Office, Office of Petitions at Fax No. 571-273-0025 on October 17, 2005


Kathryn E. Noll

MAIL STOP PETITION
COMMISSIONER FOR PATENTS
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

FAX RECEIVED

OCT 17 2005

INFORMATION DISCLOSURE STATEMENT OFFICE OF PETITIONS

Sir:

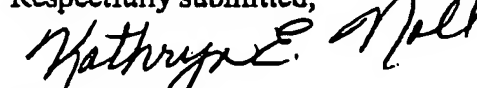
Pursuant to 37 CFR §§1.56, 1.97 and 1.98, enclosed is Form PTO-1449 citing references submitted for consideration by the Examiner. A copy of any US patents or US patent application publications is not enclosed, pursuant to 37 CFR § 1.98(a).

This Information Disclosure Statement is being filed after the payment of the issue fee, but before issuance of the patent in the above-identified application. A Petition for Withdrawal from Issue under 37 CFR § 1.313(c) and a Request for Continued Examination are filed herewith in order for the references to be considered by the Examiner.

A copy of the Search Report from a foreign counterpart application is enclosed.

It is believed that no fee is due; however, in the event a fee is required, please charge the fee to Deposit Account No. 20-0515, referencing Attorney Docket No. 1811-US.

Respectfully submitted,



Kathryn E. Noll

Reg. No.: 48,811

Attorney for Applicants

DATE: October 17, 2005

Teradyne, Inc.
321 Harrison Avenue, MS-H61
Boston, MA 02118
Telephone: (617) 422-2676
Facsimile: (617) 422-2290

Substitute for Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use as many sheets as necessary) Sheet 1 of 1	Application No.	10/675,647
	Filing Date	September 3, 2003
	First Named Inventor	Thomas S. Cohen
	Group Art Unit	2833
	Examiner Name	Ross N. Gushi
	Attorney's Docket No.	1811-US

U.S. Patent Documents					
Examiner Initials	Cite No.	Document Number Number-Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	US-5,660,551 A	08-26-1997	Sakurai	
	A2	US-4,688,866 A	08-25-1987	Legrady	
	A3	US-2001/0041477 A1	11-15-2001	Billman et al.	FAX RECEIVED
	A4	US-2002/0160658 A1	10-31-2002	Sipe	
	A5				OCT 17 2005
	A6				
	A7				OFFICE OF PETITIONS
	A8				
	A9				
	A10				
	A11				

Foreign Patent Documents or Published Foreign Patent Applications							
Examiner Initials	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation	
	B1					Yes	No
	B2						
	B3						
	B4						

Non Patent Literature Documents (include author, title, date, pages, publisher and place of publication)		
Examiner Initials	Cite No.	Document
	C1	International Search Report, Mailing Date March 11, 2005
	C2	

Examiner Signature	Date Considered
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Disclosure Form (PTO-1449)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 1811 - PCT	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2004/028956	International filing date (day/month/year) 03/09/2004	(Earliest) Priority Date (day/month/year) 03/09/2003
Applicant TERADYNE, INC.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box II).**3. ☒ Unity of invention is lacking (see Box III).****4. With regard to the title,**

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. 1

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2004/028956

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

In one embodiment of the invention, there is disclosed an electrical connector (100) connectable to a printed circuit board, the electrical connector having an insulative housing (110) including side walls (114,115) and a base (116). The electrical connector also includes signal conductors (140) and ground conductors (150). Each of the signal conductors and ground conductors has a first contact end connectable to the printed circuit board, a second contact end, and an intermediate portion therebetween that is disposed in the base of the insulative housing. The signal conductors and the ground conductors are arranged in a plurality of rows, with each row having signal conductors and ground conductors. For each of the plurality of rows, there is a corresponding ground strip (180) positioned adjacent thereto disposed in the base of the insulative housing. And the ground strip is electrically connected to the ground conductors of the row.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2004/028956**Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-7

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

International Application No. PCT/ US2004/ 028956

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-7

An electrical connector comprising ground conductors having at least two contact tails.

2. claims: 8-19

An electrical connector having a ground strip electrically connected to the ground conductors of a row.

INTL INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2004/028956

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01R12/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 660 551 A (SAKURAI HARUO) 26 August 1997 (1997-08-26) column 2, line 41 - line 42; figure 4 -----	1-4,6
Y	US 4 688 866 A (LEGRADY JANOS) 25 August 1987 (1987-08-25) column 1, line 19 - line 23; figures 1,2 -----	1-4,6
A	US 2001/041477 A1 (BILLMAN TIMOTHY B ET AL) 15 November 2001 (2001-11-15) paragraph [0032] - paragraph [0037]; figures 1-4 -----	2-4,6
A	US 2002/160658 A1 (SIPE LYNN ROBERT) 31 October 2002 (2002-10-31) paragraph [0004] - paragraph [0006]; figures 1,2,5,6 -----	1

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

9 December 2004

Date of mailing of the international search report

11/03/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Garcia Congosto, M

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/028956

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5660551	A	26-08-1997	JP 7122335 A 12-05-1995
			DE 4433522 A1 27-04-1995
			GB 2283620 A ,B 10-05-1995
			HK 1004074 A1 13-11-1998
US 4688866	A	25-08-1987	NONE
US 2001041477	A1	15-11-2001	US 6364710 B1 02-04-2002
			AT 274243 T 15-09-2004
			CA 2342008 A1 29-09-2001
			DE 60104928 D1 23-09-2004
			EP 1139498 A2 04-10-2001
			EP 1394907 A2 03-03-2004
			JP 2001307817 A 02-11-2001
US 2002160658	A1	31-10-2002	DE 60201349 D1 28-10-2004
			EP 1382094 A1 21-01-2004
			JP 2004523087 T 29-07-2004
			WO 02091528 A1 14-11-2002